STIC Search Report
EIC 2600

Scientific & Technical Information Center — USPTO

STIC Database Tracking Number: 118253

TO: Betsy Deppe
Location: PK2 3Y03
Art Unit: 2634
Tuesday, March 30, 2004

Case Serial Number: 09/772779

From: Pamela Reynolds
Location: EIC 2600
PK2-3C03
Phone: 306-0255

Pamela.Reynolds@uspto.gov

Search Notes

Dear Betsy Deppe,

Please find attached the search results for 09/772779. I used the search strategy I emailed to you to edit, which you did. I searched the standard Dialog files.

If you would like a re-focus please let me know.

Thank you.

Pamela Reynolds

fast + fous

Access DB# 118253

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: BETSY DEPPE   Examiner # : 73502   Date: 3/30/04
Art Unit: 2634   Phone Number 305-4960   Serial Number: 09/773,279
Mail Box Location: PK2 3403   Results Format Preferred (circle): (PAPER) DISK (E-MAIL)

If more than one search is submitted, please prioritize searches in order of need.
****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: METHOD & APP FOR MANAGING FINGER RESOURCES IN A COMMU SYS

Inventors (please provide full names): TAO CHEN, EDWARD TIEDEMANN, JUN WANG, SERGE WILLENEGGER

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

FD of application: 29 Jan 2001
claimed Invention involves adjusting energy thresholds based on the number of availab fingers in a RAKE rcvr (receiver) of a CDMA commun system
IS-95B discusses how to dynamically adjust a pilot strength threshold (i.e. a threshold with which the pilot strength of is compared to determine whether the pilot has been detected) - trying to find out if the adjustment is based on the a number of fingers.

****

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Descending order.

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You may refine your search by editing the current search expression or entering a
new one in the text box.

(is 95 or cdma) and adjust and pilot* | Search |

☐ Check to search within this result set

Results Key:
JNL = Journal or Magazine   **CNF** = Conference   **STD** = Standard

---

1 **An adaptive channel estimator in pilot channel based DS-CDMA systems**
Ji-Woong Choi; Yong-Hwan Lee;
Vehicular Technology Conference, 2002. VTC Spring 2002. IEEE 55th , Volume:
3 , 6-9 May 2002
Pages:1429 - 1433 vol.3

[Abstract]   [PDF Full-Text (444 KB)]   **IEEE CNF**

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2 **Multicell CDMA network design**
Akl, R.G.; Hegde, M.V.; Naraghi-Pour, M.; Min, P.S.;
Vehicular Technology, IEEE Transactions on , Volume: 50 , Issue: 3 , May 2001
Pages:711 - 722

[Abstract]   [PDF Full-Text (460 KB)]   **IEEE JNL**

---

3 **Capacity improvement in UMTS by dedicated radio resource management**
Bruggen, T.; Werner, M.; Vasseur, Y.; Trenzinger, J.; Vary, P.;
Vehicular Technology Conference, 2002. Proceedings. VTC 2002-Fall. 2002 IEEE
56th , Volume: 2 , 24-28 Sept. 2002
Pages:1284 - 1288 vol.2

[Abstract]   [PDF Full-Text (284 KB)]   **IEEE CNF**

---

4 **Adaptive channel estimation in DS-CDMA downlink systems**
Ji-Woong Choi; Yong-Hwan Lee;
Personal, Indoor and Mobile Radio Communications, 2002. The 13th IEEE
International Symposium on , Volume: 3 , 15-18 Sept. 2002
Pages:1432 - 1436 vol.3

[Abstract]   [PDF Full-Text (417 KB)]   **IEEE CNF**

---

5 **Dual power control based decoding of coded and power-controlled
DS/CDMA downlink signals**

Byoung-Hoon Kim;
Communications, 2002. ICC 2002. IEEE International Conference on , Volume:
3 , 28 April-2 May 2002
Pages:1768 - 1772 vol.3

[Abstract]   [PDF Full-Text (503 KB)]   **IEEE CNF**

---

6 **Pilot channel aided adaptable interference cancellation scheme for uplink DS/CDMA mobile radio systems**
Chih-Hsuan Tang; Wei-Yun Chang; Che-Ho Wei;
Global Telecommunications Conference, 2001. GLOBECOM '01. IEEE , Volume:
5 , 25-29 Nov. 2001
Pages:3163 - 3167 vol.5

[Abstract]   [PDF Full-Text (507 KB)]   **IEEE CNF**

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7 **Efficient pilot-assisted channel estimation for random access in IMT-2000/UMTS**
Weber, R.;
Personal, Indoor and Mobile Radio Communications, 2000. PIMRC 2000. The 11th
IEEE International Symposium on , Volume: 2 , 18-21 Sept. 2000
Pages:1459 - 1463 vol.2

[Abstract]   [PDF Full-Text (452 KB)]   **IEEE CNF**

---

8 **Optimization of power management in a CDMA radio network**
Jin Yang; Jinsong Lin;
Vehicular Technology Conference, 2000. IEEE VTS-Fall VTC 2000. 52nd , Volume:
6 , 24-28 Sept. 2000
Pages:2642 - 2647 vol.6

[Abstract]   [PDF Full-Text (620 KB)]   **IEEE CNF**

---

9 **Channel estimation for power controlled 3G CDMA**
Ratanamahatana, S.; Kwon, H.M.;
Vehicular Technology Conference Proceedings, 2000. VTC 2000-Spring Tokyo. 2000
IEEE 51st , Volume: 3 , 15-18 May 2000
Pages:2429 - 2433 vol.3

[Abstract]   [PDF Full-Text (392 KB)]   **IEEE CNF**

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10 **Congestion control in signalling free hybrid ATM/CDMA satellite network**
Elhakeem, A.K.; Kadoch, M.; Ning Zhou; Murthy, M.S.;
Personal, Indoor and Mobile Radio Communications, 1995. PIMRC'95. 'Wireless:
Merging onto the Information Superhighway'., Sixth IEEE International Symposium
on , Volume: 2 , 27-29 Sept. 1995
Pages:783 - 787 vol.2

[Abstract]   [PDF Full-Text (308 KB)]   **IEEE CNF**

```
File    9:Business & Industry(R)  Jul/1994-2004/Mar 29
          (c)  2004   The Gale Group
File   15:ABI/Inform(R) 1971-2004/Mar 30
          (c)  2004 ProQuest Info&Learning
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File  141:Readers Guide 1983-2004/Feb
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          (c)  2004 The Gale Group
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          (c)2004 Knight Ridder/Tribune Bus News
File  620:EIU:Viewswire 2004/Mar 29
          (c)  2004 Economist Intelligence Unit
File  613:PR Newswire 1999-2004/Mar 30
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File  634:San Jose Mercury  Jun 1985-2004/Mar 29
          (c)  2004 San Jose Mercury News
File  635:Business Dateline(R) 1985-2004/Mar 30
          (c)  2004 ProQuest Info&Learning
File  636:Gale Group Newsletter DB(TM) 1987-2004/Mar 30
          (c)  2004 The Gale Group
File  647:CMP  Computer Fulltext 1988-2004/Mar W3
          (c)  2004 CMP Media, LLC
File  696:DIALOG Telecom. Newsletters 1995-2004/Mar 30
          (c)  2004 The Dialog Corp.
File  674:Computer News Fulltext 1989-2004/Mar W3
          (c)  2004 IDG Communications
File  810:Business Wire 1986-1999/Feb 28
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Set	Items	Description
S1	132759	IS95B OR IS95 OR IS-95 OR IS-95A OR IS95-B OR CDMA2000 OR - CDMA
S2	9995	(ADJUST? OR ALTER? OR MODIF? OR CHANG?)(3N)(THRESHOLD? OR - PILOT()THRESHOLD?)
S3	242529	FINGERS
S4	432	RAKE(3N)RECEIVER?
S5	2212	S3(5N)NUMBER?
S6	0	S1(S)S2(S)S5
S7	5	S1(S)S2
S8	0	S7(S)S3
S9	5	RD S7 (unique items)
S10	92276	QUALCOMM
S11	1	S10(S)S5
S12	26429	S1(S)S10
S13	12	S12(S)S3
S14	0	S13(S)S2
S15	0	S13(S)S2
S16	12	S13 NOT S7
S17	11	RD S16 (unique items)

9/3,K/1   (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

05261091   Supplier Number: 48016707   (USE FORMAT 7 FOR FULLTEXT)
Gaining Power Control
Mortimer, Michael J.
Wireless World, p28
Oct, 1997
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1759

...   CDMA system. Frequency reuse of N=1 contributes to the high
capacity of CDMA systems. **Adjustable** BER **thresholds** result in a soft
capacity limit for **CDMA** and enable service providers to establish premium
service levels. Rake receivers in **CDMA** systems make the system robust
against multipath fading and enable soft handoffs. Linearity, phase
stability...

...intercept points are all important considerations when designing RF
components for these applications. The complex **CDMA** waveform with the
need for highly linear operation to maintain signal integrity and achieve
compliance...

9/3,K/2   (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter

27500374   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Event Brief of Q1 2003 Openwave Systems Earnings Conference Call - Final
FAIR DISCLOSURE WIRE
October 22, 2002
JOURNAL CODE: WFDW   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 3346

...of this. 5. 2003: expect a number of advanced handsets to double on
2002. 6. **CDMA**   carriers are leading the way, stimulating growth. S6.
December Quarter Financial Outlook (AB) 1. December...

9/3,K/3   (Item 2 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter

13800907   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Updated Story
PR NEWSWIRE
October 30, 2000
JOURNAL CODE: WPRW   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 1366

  (USE FORMAT 7 OR 9 FOR FULLTEXT)

...   Services -- Allows access to intelligent notification services that
can "listen" for events such as calendar **changes** , stock price **thresholds**
 or auction notifications, then deliver an appropriate notification to the
relevant application or device. -- Community...

9/3,K/4   (Item 3 from file: 20)
DIALOG(R)File   20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

13800902 (USE FORMAT 7 OR 9 FOR FULLTEXT)
/C O R R E C T I O N -- iPlanet E-Commerce Solutions/
PR NEWSWIRE
November 15, 2000
JOURNAL CODE: WPRW   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 1363

   (USE FORMAT 7 OR 9 FOR FULLTEXT)

...   Services -- Allows access to intelligent notification services that
can "listen" for events such as calendar **changes** , stock price **thresholds**
 or auction notifications, then deliver an appropriate notification to the
relevant application or device. -- Community...

9/3,K/5   (Item 4 from file: 20)
DIALOG(R)File   20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

13542608 (USE FORMAT 7 OR 9 FOR FULLTEXT)
iPlanet(TM) Unveils Industry's First Intelligent Communications Platform
PR NEWSWIRE
October 30, 2000
JOURNAL CODE: WPRW   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 1358

   (USE FORMAT 7 OR 9 FOR FULLTEXT)

...   Services -- Allows access to intelligent notification services that
can "listen" for events such as calendar **changes** , stock price **thresholds**
 or auction notifications, then deliver an appropriate notification to the
relevant application or device. -- Community...
?

11/7/1   (Item 1 from file: 20)
DIALOG(R)File   20:Dialog Global Reporter
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02897790
QUALCOMM Announces Sample Shipping of Highly Integrated CDMA Cell Site Modem
PR NEWSWIRE
September 23, 1998

High Integration of CSM2000 Chip Offers Power Savings Up to 75 Percent Over Previous CSM Devices - ORLANDO, Fla., Sept. 23 /PRNewswire/ -- QUALCOMM Incorporated (Nasdaq: QCOM) today announced it has begun sample shipping, on schedule, of the CSM2000(TM next-generation Cell Site Modem (CSM(TM)) chip for Code Division Multiple Access (CDMA) infrastructure and test equipment. Initial shipments to customers of production quantities of the modem are expected to begin early next year. The CSM2000 is a multiple-channel CDMA digital baseband chip capable of supporting up to eight forward link channels and eight reverse link channels. CDMA infrastructure manufacturers will benefit from a significant cost reduction per channel, a very large reduction in the circuit board space required, as well as lower power consumption per channel. "From the improved circuitry and software compatibility to the power and space savings, customers will experience a broad array of enhanced capabilities provided by the CSM2000 chip," said Johan Lodenius, vice president of marketing for QUALCOMM's ASIC Products Division. "The CSM2000 chip will enable design of much smaller, lower-cost CDMA base stations." The 8x integration allows a single CSM to demodulate up to eight simultaneous channels as required for IS-95B high speed data services and supported by the MSM3000(TM) chip. QUALCOMM recently introduced the MSM3000, a fifth-generation single-chip Mobile Station Modem (MSM(TM)). This new low-power chipset and software solution enables design of small-form factor handsets with very long stand-by times and much higher data-rate services. It is the first single-chip baseband solution for any cellular or PCS standard to enable data speeds up to 86.4 kbps. Together QUALCOMM's MSM3000 chip, IFT3000(TM)/IFR3000(TM) and RF front end constitute the system hardware necessary for an IS-95-A or IS-95-B CDMA compliant handset. Samples of the MSM3000 chip began shipping on schedule in July 1998. Features of the CSM2000 chip are detailed below: * The CSM2000 chip incorporates eight channel elements into a single device. Each channel element performs CDMA modulation, CDMA demodulation and Viterbi decoding. The channel elements are chained together internally requiring only one set of transmit outputs and therefore reducing the drive power required per channel. * The high integration of the CSM2000 chip allows substantial power savings over previous CSM devices. The CSM2000 chip provides more than 75 percent power savings when replacing eight CSM1.0 devices and more than 25 percent power savings when replacing eight CSM1.5 devices. The CSM2000 chip requires a single power supply operating between 2.7 and 3.6 volts. * The CSM2000 chip contains improved time tracking and lock detect circuitry in the demodulator of each channel element. This design enhancement provides up to 1.2 dB improvement over CSM1.0 and CSM1.5 devices depending on vehicle speed and the **number** of demodulating **fingers** operating at a given time. It also reduces the output power required from the phone, resulting in longer battery life and increased reverse link system capacity. * Each channel element within the CSM2000 chip can be accessed as if it were a single CSM1.0 or CSM1.5 device. The registers are shared between channel elements whenever possible. These features allow the CSM2000 chip to be software compatible with the CSM1.0 and CSM1.5 devices with very minor changes. * The CSM2000 chip comes in a 128-pin Metric Quad Flat Pack (MQFP) package allowing a significant space savings for base station hardware. The footprint of a single CSM2000 chip is only 18 percent of the area occupied by eight CSM1.5

devices. Headquartered in San Diego, Calif., **QUALCOMM** develops,
manufactures, markets, licenses, and operates advanced communications
systems and products based on its proprietary digital wireless
technologies. The Company's primary product areas are the OmniTRACS(R)
system (a geostationary satellite-based, mobile communications system
providing two-way data and position reporting services), CDMA wireless
communications systems and products and, in conjunction with others, the
development of the Globalstar(TM) low-earth-orbit (LEO) satellite
communications system. Other company products include the Eudora Pro(R)
electronic mail software, ASIC products, and communications equipment and
systems for government and commercial customers worldwide. For more
information on **QUALCOMM** products and technologies, please visit the
Company's web site at <www. **qualcomm** .com.> Except for the historical
information contained herein, · this news release contains forward-looking
statements that are subject to risks and uncertainties, including timely
product development and commercial implementation of **QUALCOMM** 's products,
as well as the other risks detailed from time to time in the Company's SEC
reports, including the report on Form 10-K for the year ended September 28,
1997 and most recent Form 10-Q. **QUALCOMM** , OmniTRACS and Eudora Pro are
registered trademarks and MSM, MSM3000, CSM, CSM2000, IFT3000 and IFR3000
are trademarks of **QUALCOMM** Incorporated. Globalstar is a trademark of
Loral **QUALCOMM** Satellite Services, Incorporated. /CONTACT: Ed Knowlton,
ASIC Products Marketing Communications, 619-651-7942, fax: 619-658-1587,
eknowlton@ **qualcomm** .com, Christine Trimble, Public Relations,
619-651-3628, fax: 619-651-2590, ctrimble@ **qualcomm** .com, or Julie
Cunningham, Investor Relations, 619-658-4224, fax: 619-651-9303, juliec@
qualcomm .com, all of **QUALCOMM** Incorporated/ 07:30 EDT

?

17/3,K/1   (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

05069677   Supplier Number: 47442270   (USE FORMAT 7 FOR FULLTEXT)
CDMA-GSM HYBRID TO UNDERGO TECHNOLOGY EVALUATION
Wireless Business and Finance, v4, n12, pN/A
June 4, 1997
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 601

...   development of what would be a truly global wireless tele-phone.
     GSM proponents have their **fingers** crossed that a tri-band
"WorldPhone" (WB&F, Nov. 6, 1996) is in the offing, but a **CDMA** -GSM hybrid
handset would have the advantage of functioning without regard to air
interfaces. An...

...subscribers has been caught up in patent litigation between L.M.
Ericsson AB [ERICY] and **Qualcomm** (WB&F, March 26).
     Terminals to be used in the CDMA-GSM trial will be...

 17/3,K/2   (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter

34494727 (USE FORMAT 7 OR 9 FOR FULLTEXT)
ROK Multi-media Service Trend Demands 3G Phones
Report by Kim T'ae-kyu : "3G Phones Dominate Domestic Market"
WORLD NEWS CONNECTION
March 16, 2004
JOURNAL CODE: WWNC   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 684

  (USE FORMAT 7 OR 9 FOR FULLTEXT)

...   major concern for handset makers," Lee said.
     Earlier last week, Korean handset makers pointed their **fingers** at
 Qualcomm   , the firm which retains a strong lock on the **CDMA**   equipment
market, for the shortage of **CDMA** chips.
     They claimed Qualcomm has offered only 70 80 percent of baseband chips
from among...

 17/3,K/3   (Item 2 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter

34456508 (USE FORMAT 7 OR 9 FOR FULLTEXT)
3G Phones Dominate Domestic Market
KOREA TIMES
March 17, 2004
JOURNAL CODE: WKOR   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 625

  (USE FORMAT 7 OR 9 FOR FULLTEXT)

...   major concern for handset makers,'' Lee said.
     Earlier last week, Korean handset makers pointed their **fingers** at

Qualcomm , the firm which retains a strong lock on the **CDMA**   equipment market, for the shortage of **CDMA** chips.
     They claimed Qualcomm has offered only 70...

 17/3,K/4   (Item 3 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
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25144278
7Days - The world in 60 seconds.
COMPUTING
September 26, 2002
JOURNAL CODE: WCOM   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 178

     ... Sun Microsystems fellow James Gosling, the father of the Java programming language, and Irwin Jacobs, **Qualcomm**   chief executive for **CDMA** , the fastest growing form of digital wireless. And there's plenty of contenders for the...

...s Law - that you can count the annual growth of a mature industry on the fingers of one hand. It points out great ideas and a realistic outlook is the passport...

 17/3,K/5   (Item 4 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
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02897790
QUALCOMM   Announces   Sample   Shipping   of   Highly Integrated CDMA Cell Site Modem
PR NEWSWIRE
September 23, 1998
JOURNAL CODE: WPRW   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 803

     ...Power Savings Up to 75 Percent Over Previous CSM Devices - ORLANDO, Fla., Sept. 23 /PRNewswire/ -- **QUALCOMM** Incorporated (Nasdaq: QCOM) today announced it has begun sample shipping, on schedule, of the CSM2000(TM next-generation Cell Site Modem (CSM(TM)) chip for Code Division Multiple Access (**CDMA**) infrastructure and test equipment. Initial shipments to customers of production quantities of the modem are expected to begin early next year. The CSM2000 is a multiple-channel **CDMA** digital baseband chip capable of supporting up to eight forward link channels and eight reverse link channels. **CDMA**   infrastructure manufacturers will benefit from a significant cost reduction per channel, a very large reduction...

... enhanced capabilities provided by the CSM2000 chip," said Johan Lodenius, vice president of marketing for **QUALCOMM** 's ASIC Products Division. "The CSM2000 chip will enable design of much smaller, lower-cost **CDMA** base stations." The 8x integration allows a single CSM to demodulate up to eight simultaneous...

... required for IS-95B high speed data services and supported by the MSM3000(TM)   chip.   **QUALCOMM**   recently   introduced   the MSM3000, a fifth-generation single-chip Mobile Station Modem (MSM(TM)). This...

... any cellular or PCS standard to enable data speeds up to 86.4 kbps.

Together QUALCOMM 's MSM3000 chip, IFT3000(TM)/IFR3000(TM) and RF front end constitute the system hardware necessary for an IS-95-A or IS-95-B CDMA compliant handset. Samples of the MSM3000 chip began shipping on schedule in July 1998. Features...

... The CSM2000 chip incorporates eight channel elements into a single device. Each channel element performs CDMA modulation, CDMA demodulation and Viterbi decoding. The channel elements are chained together internally requiring only one set...

... CSM1.0 and CSM1.5 devices depending on vehicle speed and the number of demodulating **fingers** operating at a given time. It also reduces the output power required from the phone...
... percent of the area occupied by eight CSM1.5 devices. Headquartered in San Diego, Calif., QUALCOMM develops, manufactures, markets, licenses, and operates advanced communications systems and products based on its proprietary...

... a geostationary satellite-based, mobile communications system providing two-way data and position reporting services), CDMA wireless communications systems and products and, in conjunction with others, the development of the Globalstar...

... and communications equipment and systems for government and commercial customers worldwide. For more information on QUALCOMM products and technologies, please visit the Company's web site at <www. qualcomm .com.> Except for the historical information contained herein, this news release contains forward-looking statements that are subject to risks and uncertainties, including timely product development and commercial implementation of· QUALCOMM 's products, as well as the other risks detailed from time to time in the...

...10-K for the year ended September 28, 1997 and most recent Form 10-Q. QUALCOMM , OmniTRACS and Eudora Pro are registered trademarks and MSM, MSM3000, CSM, CSM2000, IFT3000 and IFR3000 are trademarks of QUALCOMM Incorporated. Globalstar is a trademark of Loral QUALCOMM Satellite Services, Incorporated. /CONTACT: Ed Knowlton, ASIC Products Marketing Communications, 619-651-7942, fax: 619-658-1587, eknowlton@ qualcomm .com, Christine Trimble, Public Relations, 619-651-3628, fax: 619-651-2590, ctrimble@ qualcomm .com, or Julie Cunningham, Investor Relations, 619-658-4224, fax: 619-651-9303, juliec@ qualcomm .com, all of QUALCOMM Incorporated/ 07:30 EDT

17/3,K/6 **(Item 1 from file: 608)**
DIALOG(R)File 608:KR/T Bus.News.
(c)2004 Knight Ridder/Tribune Bus News. All rts. reserv.

06592478 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Head of San Diego-Based Qualcomm Discusses Future of Wireless Industry
San Jose (Calif.) Mercury News
September 27, 1998
DOCUMENT TYPE: NEWSPAPER RECORD TYPE: FULLTEXT LANGUAGE: ENGLISH
WORD COUNT: 1599

TEXT: San Jose Mercury News, Calif.
Sep. 27--Most Americans would identify Qualcomm as the stadium where the San Diego Padres and Chargers play ball. But Qualcomm Inc.'s reputation is spreading rapidly beyond the stadium marquee to businesses, homes and cars...

...Again, it's a competitive issue. They had two cellular companies, both of which used **CDMA** , and then they added three PCS companies. They've all been competing, and people continue hoping that will change.
Japan has just turned on its first **CDMA** networks. Prior to this, they had a kind of Japanese-only technology. So we expect...

...demand for phone service. India has started service. Russia, of course. We all have our **fingers** crossed as to what's happening with the economy there, what direction we're going...

...we'll see wireless phones expanding greatly and the technology more and more converging on **CDMA** .
Q: Does usage vary from one region to the next?
A: The most fundamental difference...

...instability in the workforce, with employees moving rapidly from one company to another.
Q: Is **Qualcomm** in a position to acquire other companies?
A: We've grown to date largely without...

 17/3,K/7   (Item 2 from file: 608)
DIALOG(R)File 608:KR/T Bus.News.
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06576702   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Smaller Wireless Phones Now Travel Just About Anywhere
Martin J. Moylan
Saint Paul Pioneer Press Minn
August 03, 1998
DOCUMENT TYPE: NEWSPAPER   RECORD TYPE: FULLTEXT   LANGUAGE: ENGLISH
WORD COUNT: 1671

...TEXT: systems. Later in 1999, Motorola expects to introduce versions that will work on TDMA and **CDMA** wireless networks.
    Motorola's V phones will have as much as 160 minutes of talk...

...spokesman for the Cellular Telecommunications Industry Association.
    "There's the highway safety issue -- and your **fingers** can only get so small," he says.
    Shosteck estimates that 20 to 25 percent of...phone coverage in the palm of your hand."
    The current Z phone works only on **CDMA** wireless networks. A future model will work on the **CDMA** system and the analog network that covers most of the country.
    The Z phones provide...
...wireless phones get?
    "I don't think they'll be getting that much smaller," says **Qualcomm** spokeswoman Carolyn Brown. "People like the ergonomic feel from the ear to the mouthpiece. And as the phones get smaller, you lose battery life."
     Qualcomm 's Q phone weighs 5.7 ounces and measures 4 by 2.2. by 1...

 17/3,K/8   (Item 1 from file: 696)
DIALOG(R)File 696:DIALOG Telecom. Newsletters
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00832271
 **RURAL CARRIERS URGE RELIEF ON E911, CITING TECHNOLOGY CHALLENGES **

COMMUNICATIONS DAILY
October 31, 2003   DOCUMENT TYPE: NEWSLETTER
PUBLISHER: WARREN PUBLISHING INC.
LANGUAGE: ENGLISH.   WORD COUNT: 1052   RECORD TYPE: FULLTEXT

TEXT:
...available, he said.

Allen Holder, dir. of the Lincoln City, W.Va., PSAP,
said a **CDMA** carrier in his rural county was using a handset-
based E911 solution and a larger...

...of the network-based solution was only about 10%, Holder
said. "I am crossing my **fingers** for when those handsets are
developed. It may be a long time before we see...

...isn't there," said Evelyn Bailey of Vt.'s E911 Board.

As for handset availability, **Qualcomm** Govt. Relations
Dir. Jonas Neihardt said Vodafone was expected to make
handsets available with Assisted...

...the next 6 months in significant volumes.
Virtually all the new products coming through the **CDMA**
pipeline now include A-GPS, he said. Their cost on the **CDMA**
platform has been reduced to about 70 cents per handset, he
said. "It was substantially...

 17/3,K/9   **(Item 2 from file: 696)**
DIALOG(R)File 696:DIALOG Telecom. Newsletters
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00656414
**WAR IS OVER! QUALCOMM AND ERICSSON ON THE VERGE OF SETTLING PATENT DISPUTE
; 3G RECONCILIATION COMES FROM UNEXPECTED QUARTER!**
PCS WEEK
February 24, 1999 VOL: 10   ISSUE: 8   DOCUMENT TYPE: NEWSLETTER
PUBLISHER: PHILLIPS BUSINESS INFORMATION
LANGUAGE: ENGLISH   WORD COUNT: 1307   RECORD TYPE: FULLTEXT

TEXT:
...intimations of peace began appearing. At the moment the battle lines
are still drawn and **fingers** are still poised over buttons. However,
the news from two different fronts is hopeful enough...

...One cause for hope is an apparent effort to settle the
longstanding patent dispute between **Qualcomm** Inc. [QCOM] and LM
Ericsson AB [ERICY]. The case over **CDMA** intellectual property-in
which Ericsson claimed **Qualcomm** 's **CDMA** technology violated its
patents-has been wending its way through the legal system essentially
forever...
...industry of some sort of cross-licensing deal
that would finally get Ericsson into the **CDMA** business, and would give
 Qualcomm access to GSM technology if it can think of something it
wants to do with...

...more to do with creating some kind of
harmonized third-generation (3G) technology than with **Qualcomm**
starting to produce GSM handsets and base stations. **Qualcomm** is
moving out of the hardware business as fast as it practically can,
concentrating its business on making chips and on **CDMA** licensing.
However, access to core GSM technology could make it easier for
Qualcomm to crack the European market by letting the company produce
CDMA -based 3G equipment with backward compatibility to GSM.
On the other side, Ericsson would gain ready entry to the **CDMA**
market, something the company needs to compete with other
manufacturing giants that can play all...

...In the
past, simply suggesting in a trade show session that Ericsson would
eventually sell **CDMA** equipment has led to legal action from **Qualcomm** .
Ericsson must be eager to get **Qualcomm** 's teeth out of its leg as it
watches its market share take a beating...
...agreement is.
Neither side will admit to anything, even though some press reports
have cited **Qualcomm** 's Irwin Jacobs as confirming that serious talks
are underway. Ericsson spokesperson Kathy Egan would...

...date for the
companies' lawsuit fast approaching, "we have every reason to be
talking with **Qualcomm** ." On the other hand, even the
rumors don't claim anything solid has been worked...a deal will be
worked out, and seemed to see it as a victory for **Qualcomm** .
Qualcomm 's stock rose sharply on the rumors, gaining nearly 10 percent
on Monday. Ericsson's...

...actually seems to have succeeded in
hammering out a basic 3G framework including harmonization between
cdma2000 and W- **CDMA** technologies. The TransAtlantic Business Dialogue
(TABD) has taken a low profile in the 3G debate...

...actually make policy, but does
represent a broad spectrum of international players. Representatives
of both **Qualcomm** and Ericsson were at the Washington meeting, for
example, as well as most other major...
...include two standards: UWC-136, the IS-136 TDMA-derived 3G
standard, and a harmonized **CDMA** -based standard that would be backward
compatible with both current generation GSM and **CDMA** systems. The
standard would have three modes: a multicarrier mode that would
support multiple bandwidths...

...IS-41. Support for both network protocols has long been a key
position of the **CDMA** community.
At least one group in the thick of the battle was satisfied with
the TABD agreement. The **CDMA** Development Group (CDG) said it is "very
pleased" with the outcome of the meeting.
"...in Europe and
the Americas nervous would presumably impact the Asians, and if
Ericsson and **Qualcomm** can manage to agree on some of these points, it
seems likely the Asians will...

...the customer is the one vendors listen
to.
The Times of London even reports that **Qualcomm** executives
speaking to the London financial community said that the recent merger

between Vodafone plc...
...and AirTouch Communications Inc. [ATI] will
help resolve the 3G trade situation.
The paper quoted **Qualcomm** Vice President of Government Affairs
William Bold as saying that **Qualcomm** doesn't believe extensive
litigation is necessary because "the carriers have taken control of
the...

 17/3,K/10   (Item 3 from file: 696)
DIALOG(R)File 696:DIALOG Telecom. Newsletters
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 00624217
 **QUALCOMM SEEKS TO ENHANCE STOCK VALUE AS IT SPINS OFF CARRIER INTERESTS; C
OULD HANDSET BUSINESS BE NEXT?**
PCS WEEK
September 16, 1998 VOL: 9   ISSUE: 37   DOCUMENT TYPE: NEWSLETTER
PUBLISHER: PHILLIPS BUSINESS INFORMATION
LANGUAGE: ENGLISH   WORD COUNT: 934   RECORD TYPE: FULLTEXT

TEXT:
 Qualcomm Inc. [QCOM] is frequently described as unfocused, with
operations including its OmniTRACS fleet management business...

...interests, and even the popular Eudora e-mail application in addition
to its IS-95 **CDMA** business.
There are indications, however, that **Qualcomm** may have decided
it has its **fingers** in too many different pies, and that it would be
wise to streamline a bit...

...see PCS WEEK, June 3). In addition, there are
rumors circulating in the industry that **Qualcomm** is actively trying to
sell off at least part of its manufacturing operations.
While admitting...

...the carrier interests are not logically
tied to the rest of the company's operations, **Qualcomm** Vice Chairman
Harvey White maintains that **Qualcomm** is "really much more focused than
people give us credit for." White declined to comment...

...a vision of the company that did not seem
consistent with a sale of the **CDMA** business.

...Leap Wireless To Take Over Carrier Interests

 Qualcomm announced a target distribution date of Sept. 23 for
shares of its newly created wireless...

...Inc. [LWIN], as opposed to the previous
"working title" of Spinco Inc. At that time, **Qualcomm** expects to
transfer approximately $260 million in assets to Leap. The company
will control **Qualcomm** 's interests in Mexican conglomerate Pegaso
Telecommunicaciones S.A. de C.V.; Russia's Metrosyvaz...
...S.A.;
Australia's Oz Phone Pty. Ltd.; and domestic PCS licensee Chase
Telecommunications Ltd.
 Qualcomm shareholders will receive one share of Leap for every

four shares of **Qualcomm** they own. **Qualcomm** said it will retain a
warrant to purchase 5.5 million shares of Leap common...

...17.6 million shares to be issued,
at any point during the next 10 years.
 Qualcomm also noted that its board reserves the right to
withdraw its declaration of the dividend to **Qualcomm** shareholders at
any time prior to the distribution. The company may be worried about
the...

...addition to shedding its carrier interests, it is
increasingly rumored that at least some of **Qualcomm** 's wireless
manufacturing business may be up for sale. Most significantly,
analysts at Warburg Dillon...

...noted in a recent report that
"based on conversations with industry contacts, we believe that
 Qualcomm is actively trying to sell portions of its manufacturing
businesses. The most likely portion, we...for a handset business.
Apparently the answer depends greatly on, as
WDR puts it, "whether **Qualcomm** 's intellectual property is included."
With the rights to **CDMA** technology included, the business could
provide an entree for European handset makers into the North American
 CDMA market. WDR thinks Siemens Wireless Terminals [SMAWY] and
Alcatel [ALA] are the most likely candidates...

...on the outcome of the current battle over
harmonization of third-generation wireless standards. If **Qualcomm**
succeeds in getting IS-95 harmonized into the third-generation
standard-and is then willing...

...of potential buyers might be very interesting
indeed, but that remains a highly speculative scenario.

... **Qualcomm** More Focused Than People Think

According to White, the spin-off of Leap provided benefits both
to Leap and to **Qualcomm** itself. White will resign from **Qualcomm** 's
board to become CEO of Leap once the spin-off is complete.
White said that the financial markets "generally discounted"
 Qualcomm 's carrier interests, and "thought they were a confusion, not
in the mainstream of **Qualcomm** 's business, which is true. Further, to
the extent that we sell goods to these...

...They were a hidden asset."
Apart from what would become Leap, White described all of
 Qualcomm 's business lines as "aimed directly at the wireless
communication world," and said, "our focus...

...of products for those businesses."
White also agreed that the company's intellectual property in
 CDMA has been a remarkably valuable asset, and would only become more
so if it were...

...Leap transaction [is] at this time imminent as far as I
can see." Since the **CDMA** rights are a core of the company's wireless
business, it also seems unlikely that **Qualcomm** would be as focused as
White sees it if it sold those rights.
...

00624206
Qualcomm Seeks To Enhance Stock Value With Spinoff
COMMUNICATIONS TODAY
September 16, 1998 DOCUMENT TYPE: NEWSLETTER
PUBLISHER: PHILLIPS BUSINESS INFORMATION
LANGUAGE: ENGLISH   WORD COUNT: 905   RECORD TYPE: FULLTEXT

TEXT:
 Qualcomm Inc. [QCOM] frequently is described as unfocused, with
operations including its OmniTRACS fleet management business...

...interests, and even the popular Eudora E-mail application in addition
to its IS-95 **CDMA** business.
There are indications, however, that **Qualcomm** may have decided it
has its **fingers** in too many different pies. The company is nearly
ready to complete the previously announced...

...wireless carriers (CT, 9/14). In addition, there are
rumors circulating in the industry that **Qualcomm** is actively trying to
sell off at least part of its manufacturing operations.
While admitting...

...the carrier interests are not logically tied
to the rest of the company's operations, **Qualcomm** Vice Chairman Harvey
White maintains that **Qualcomm** is "really much more focused than people
give us credit for." White declined to comment...

...a vision of the company that did not seem
consistent with a sale of the **CDMA** business.
 Qualcomm announced a target distribution date of Sept. 23 for
shares of its newly-created wireless...

...Inc. [LWIN], as opposed to the previous
"working title" of Spinco Inc. At that time, **Qualcomm** expects to
transfer approximately $260 million in assets to Leap. The company
will control **Qualcomm** 's interests in Mexican conglomerate Pegaso
Telecommunicaciones S.A. de C.V.; Russia's Metrosyvaz...

...S.A.;
Australia's Oz Phone Pty. Ltd.; and domestic PCS licensee Chase
Telecommunications Ltd.
 Qualcomm shareholders will receive one share of Leap for every
four shares of **Qualcomm** they own. **Qualcomm** said it will retain a
warrant to purchase 5.5 million shares of Leap common...

...17.6 million shares to be issued,
at any point during the next 10 years.
 Qualcomm also noted that its board reserves the right to withdraw
its declaration of the dividend to **Qualcomm** shareholders at any time
prior to the distribution. The company may be worried about the...

...addition to shedding its carrier interests, it is loudly
rumored that at least some of **Qualcomm** 's wireless manufacturing

business may be up for sale. Most significantly, analysts at Warburg Dillon...

...noted in a recent report that "based on conversations with industry contacts, we believe that **Qualcomm** is actively trying to sell portions of its manufacturing businesses. The most likely portion, we business? Apparently the answer depends greatly on, as Warburg put it, "whether **Qualcomm** 's intellectual property is included." With the rights to **CDMA** technology included, the business could provide an entree for European handset makers into the North American **CDMA** market.
Warburg thinks Siemens Wireless Terminals [SMAWY] and Alcatel [ALA] are the most likely candidates...

...on the outcome of the current battle over harmonization of third-generation wireless standards.
If **Qualcomm** succeeds in getting IS-95 harmonized into the third-generation standard-and is then willing...

...According to White, the spin-off of Leap provides benefits both to Leap and to **Qualcomm** itself. White will resign from **Qualcomm** 's board to become CEO of Leap once the spin-off is complete.
White said that the financial markets "generally discounted" **Qualcomm** 's carrier interests, and "thought they were a confusion, not in the mainstream of **Qualcomm** 's business, which is true. Further, to the extent that we sell goods to these...

...They were a hidden asset."
Apart from what would become Leap, White described all of **Qualcomm** 's business lines as "aimed directly at the wireless communication world," and said, "our focus...
...of products for those businesses."
White also agreed that the company's intellectual property in **CDMA** has been a remarkably valuable asset, and would only become more so if it were...

...Leap transaction [is] at this time imminent as far as I can see." Since the **CDMA** rights are a core of the company's wireless business, it also seems unlikely that **Qualcomm** would be as focused as White sees it if it sold those rights.
...
?

File 348:EUROPEAN PATENTS 1978-2004/Mar W03
        (c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20040325,UT=20040318
        (c) 2004 WIPO/Univentio

```
Set      Items    Description
S1       15012    IS95B OR IS95 OR IS-95 OR IS-95A OR IS95-B OR CDMA2000 OR -
                  CDMA
S2       13690    (ADJUST? OR ALTER? OR MODIF? OR CHANG?)(3N)(THRESHOLD? OR -
                  PILOT()THRESHOLD?)
S3       40929    FINGERS
S4        1671    RAKE(3N)RECEIVER?
S5        2074    S3(5N)NUMBER?
S6         803    S1(S)S4
S7           3    S6(S)S2
S8           2    S2(10N)S5
S9           2    S8 NOT S7
S10         26    S6(10N)S5
S11          0    S10(10N)THRESHOLD?
S12          4    S10(S)THRESHOLD?
S13          2    S12 NOT (S8 OR S7)
```

00895814   **Image available**
METHOD AND APPARATUS FOR COMBINED FINGER MANAGEMENT AND FINGER LOCK FOR MULTIPATH SIGNALS IN A WIRELESS COMMUNICATION SYSTEM.
PROCEDE ET SYSTEME DESTINES A UNE GESTION ET A UN VERROUILLAGE COMBINES DE SIGNAUX MULTIVOIE DANS UN SYSTEME DE COMMUNICATION SANS FIL
Patent Applicant/Assignee:
  KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 BA
    Eindhoven, NL, NL (Residence), NL (Nationality)
Inventor(s):
  ALDAZ Luis, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,
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  JEONG Gibong, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,
  HSIA Daniel, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,
  LIU Juncheng C, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,
Legal Representative:
  VOLMER Georg (agent), Internationaal Octrooibureau B.V., Prof. Holstlaan
    6, NL-5656 AA Eindhoven, NL,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200229996 A2-A3 20020411 (WO 0229996)
  Application: WO 2001EP11405 20011002 (PCT/WO EP0111405)
  Priority Application: US 2000678480 20001002
Designated States: JP KR
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
Publication Language: English
Filing Language: English
Fulltext Word Count: 15780

Fulltext Availability:
  Claims

Claim
... of Figure 2 includes an antennae 202, a transceiver 204, a searcher
  224, and a **rake receiver** 226. The antennae is coupled to the
  transceiver 204 which in turn is coupled to **rake receiver** 226 and
  searcher 224. Searcher 224 and **rake receiver** 226 are both coupled to
  processor 214 and memory 216. **Rake receiver** 226 includes multiple
  demodulation paths, also known as demodulating fingers or demodulators,
  221 Each finger...

...may independently identify and demodulate its respective multipath
  signal based upon its time of arrival. **Rake receiver** is coupled to
  subsequent hardware, not shown in Figure 2, that is well known in...of
  the multiple states can greatly exceed the number of available
  demodulating fingers in a **rake receiver** . In this manner, the present
  invention provides a sequence of queues of available multipath signals...
  demodulation. Step 430 is implemented in one embodiment by having one of
  demodulating fingers in **rake receiver** 226 of Figure 2 available for
  demodulating a multipath signal. If a demodulating finger is...without
  the detrimental effects of thrashing. While the present embodiment
  applies process 5000 to a **CDMA** digital communication system, the
  present invention can be applied to any communication system needing time
  ...

...provided from firmware 2120 to one of the demodulating fingers, e.g.
  221-223, in **rake receiver** 226 of communication device 200 to enable
  demodulation of the given multipath signal. Following step...

...thresholds used in process 5000 can be stored in memory. Thus, their
   values can be **changed** , in one embodiment. **Threshold** values can be
   programmed into ROM 218b or RAM 218a portions of memory 216. Threshold...
   Hardware section 720 of Figure 7 includes an antennae 703, a transceiver
   704, and a **rake   receiver**   726. Hardware section 720 is coupled to
   firmware/ software portion 7 1 0 of communication...

 7/3,K/2   (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00813483   **Image available**
METHOD AND APPARATUS FOR ADAPTIVELY SELECTING A SOFT SYMBOL
PROCEDE   ET   APPAREIL   PERMETTANT   DE   SELECTIONNER   UN SYMBOLE VARIABLE DE
   MANIERE ADAPTATIVE
Patent Applicant/Assignee:
  PHILIPS SEMICONDUCTORS INC, 811 East Arques Avenue, Sunnyvale, CA 94088,
     US, US (Residence), US (Nationality), (Designated only for: MC)
  KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621BA
     Eindhoven, NL, NL (Residence), NL (Nationality), (For all designated
     states except: MC)
Inventor(s):
  ALDAZ Luis, 1462 Cedarmeadow Court, San Jose, CA 95131, US,
  HSIA Daniel Jeng, 14113 Recurdo Drive, Del Mar, CA 92014, US,
Legal Representative:
  GALLENSON Mavis S (et al) (agent), Ladas & Parry, Suite 2100, 5670
     Wilshire Boulevard, Los Angeles, CA 90036-5679, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200147137 A1 20010628 (WO 0147137)
  Application: WO 2000US35051 20001222   (PCT/WO US0035051)
  Priority Application: US 99171700 19991222; US 2000677938 20001002
Designated States: CN JP KR
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
Publication Language: English
Filing Language: English
Fulltext Word Count: 6236

Fulltext Availability:
  Claims

Claim
... PDAs), digital cameras, etc. One form of wireless communication, known
   as Code Division Multiple Access (**CDMA**) spread spectrum format, is
   among the most commonly deployed wireless technology. Because of
   increasing demand...

...g. cell, and a mobile unit 102, e.g. a cell phone, are shown. A **CDMA**
   system uses a common bandwidth ·to transmit the pilot signal and a data
   ·signal 106...a communication device having a processor, e.g., a general
   purpose processor, a memory, a **rake   receiver** , and a digital signal
   processor (DSP). Specifically, the memory portion of the communication
   device contains...the art. One such decoder is a Viterbi decoder, used in
   code division multiple access (**CDMA**) 0 systems. While the present
   invention adaptively provides a soft symbol to a decoding operation...to
   each other. ASIC block 320 includes an antennae 303, a transceiver 304,
   and a **rake   receiver**   326. Antennae 303 is coupled to transceiver 304
   which in turn is coupled to **rake   receiver** 326. **Rake   receiver** 326,
   in the present embodiment, includes three 1 5 separate fingers, finger 1

321, finger...

...fingers, the present invention is well-suited to using any number of
fingers in a **rake   receiver** . Additionally, the present invention can
include more or less components than those shown in the...example,
in one embodiment, the demodulator function 242 can be accomplished by
transceiver 304 and **rake   receiver** 326 portions of ASIC 320.
Alternatively, the demodulation function can be accomplished by the
firmware...using demodulate function block 242 of
1 7
Figure 2A or using transceiver 304 and **rake   receiver** 326 of Figure 3.
Demodulation allows the data signal to be captured from the carrier...can
be changed for a changing environment, e.g., when the performance of the
signal **changes** beyond a **threshold** . 1 5 **Alternatively** , the present
invention is well suited to a wide variety of management techniques for
deciding...

 7/3,K/3   (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00785432   **Image available**
METHOD OF PROCESSING CDMA SIGNAL COMPONENTS
PROCEDE DE TRAITEMENT DES COMPOSANTES DE SIGNAL AMCR
Patent Applicant/Assignee:
  NOKIA NETWORKS OY, Keilalahdentie 4, FIN-02150 Espoo, FI, FI (Residence),
    FI (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  VIHRIALA Jaakko, Seelannintie 22 A 2, FIN-90800 Oulu, FI, FI (Residence),
    FI (Nationality), (Designated only for: US)
Legal Representative:
  KOLSTER OY AB (agent), Iso Roobertinkatu 23, P.O. Box 148, FIN-00121
    Helsinki, FI,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200118985 A1 20010315 (WO 0118985)
  Application: WO 2000FI739 20000901 (PCT/WO FI0000739)
  Priority Application: FI 991871 19990902
Designated States: AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY
  BZ CA CH CN CR CU CZ CZ (utility model) DE DE (utility model) DK DK
  (utility model) DM DZ EE EE (utility model) ES FI FI (utility model) GB
  GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KR (utility model) KZ LC LK
  LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK
  SK (utility model) SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 7170

Fulltext Availability:
  Detailed Description

Detailed Description
... 16 chips represent one symbol.

  Figure 4 shows the parts of one embodiment of a **RAKE   receiver**
  that are essential for the invention. In a conventional **CDMA** receiver

generally
has 1 to 5 RAKE fingers, each listening for one multipath-propagated
component...

...the radio telephone. With reference to Figure 4, the received signal is
taken in the **RAKE receiver** after an antenna
receiver 400 and radio frequency parts 402 to an A/D converter...

...the different signal components from the impulse
0 response and allocates the components to the **RAKE receiver** fingers
408A to 408D to track. Forming the impulse response is done according to
prior...

...allocates the fingers 408A to 5 408D, if the BER decreases below a
pre-set **threshold** value. One **alternative** is to re-allocate the
fingers regularly. During connection establishment, a correlator in the
searcher...
?

00927876   **Image available**
METHOD AND APPARATUS FOR ALLOCATING FINGERS IN A WIRELESS COMMUNICATION SYSTEM
PROCEDE ET APPAREIL DE GESTION DES RESSOURCES DE TYPE DOIGT DANS UN SYSTEME DE COMMUNICATION
Patent Applicant/Assignee:
  QUALCOMM INCORPORATED, 5775 Morehouse Drive, San Diego, CA 92121-1714, US
  , US (Residence), US (Nationality)
Inventor(s):
  CHEN Tao, 5415 Harvest Run Drive, San Diego, CA 92130, US,
  TIEDEMANN Edward G Jr, 656 Barretts Mill Road, Concord, MA 01742, US,
  WANG Jun, 13203 Winstanley Way, San Diego, CA 92130, US,
  WILLENEGGER Serge, Derriere-Ville B, CH-1425 Onnens, CH,
Legal Representative:
  WADSWORTH Philip R (et al) (agent), Qualcomm Incorporated, 5775 Morehouse
    Drive, San Diego, CA 92121-1714, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200261990 A2-A3 20020808 (WO 0261990)
  Application: WO 2002US1902 20020123   (PCT/WO US0201902)
  Priority Application: US 2001772779 20010129
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
  RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 5297

Fulltext Availability:
  Detailed Description
  Claims

English Abstract
  In a communication system, a method and an accompanying apparatus
  determine a **number** of available **fingers** (110A-N) in a receiver (100).
  A controller (121) **adjusts** a **threshold** based on the determined
  number of the available **fingers** (110). The **adjusted threshold** may
  be one of, or any combination of, a pilot signal search threshold, a
  lock/unlock threshold, and a combine/un-combine threshold. The **number**
  of available **fingers** (110) may **change** after the **threshold** is
  adjusted .

Detailed Description
..: and an accompanying apparatus
  provide for efficient management of finger resources. A controller
  determines a **number** of available **fingers** in a receiver. The
  controller may **adjust** a **threshold**
  based on the determined **number** of the available **fingers** . The
  adjusted
   threshold may be one of, or any combination of, pilot signal search
  threshold,
  lock/unlock threshold, and combine/un-combine threshold. The **number** of

available **fingers** may **change** after **adjusting** the **threshold** , thereby, allowing management of the **number** of the available **fingers** by **adjusting** the **threshold** .

BRIEF DESCRIPTION OF THE DRAWINGS
FIG. 1 depicts a block diagram of a conununication system...accordance with various embodiments, the finger resources may be
managed more efficiently by determining the **number** of available **fingers** and **adjusting** the **threshold** based on the available **number** of **fingers** . For example, if the receiver has a high number of available fingers, the threshold may...

Claim
  CLAIMS

  1 In a communication system, a method comprising:
  determining a **number** of available **fingers** in a receiver of said
  communication system;
   adjusting a **threshold** based on said **number** of available **fingers** .

  2 The method as recited in claim 1, wherein said threshold is a pilot
  signal...

...another set among said
  Active, Candidate and Neighbor sets of base stations based on said
  adjusting said **threshold** based on said **number** of available **fingers**
  .

  20 The method as recited in claim 1 wherein said threshold is at least
  one...number of available fingers in
  said communication system, wherein said controller further is configured
  for **adjusting** a **threshold** based on said **number** of available
  fingers .
  26 The apparatus as recited in claim 25 wherein said threshold is a pilot
  signal...

...another set among said Active, Candidate and Neighbor sets of base
  stations based on said **adjusting** said **threshold** based on said **number**
   of available **fingers** .

  33 In a communication system, a method comprising:
  determining a number of available fingers in...

...signal within a search window;
  comparing correlation energy of said received pilot signal to said
   adjusted search window **threshold** ;
  determining an assigned **number** of **fingers** , from said **number** of
  available **fingers** , to a received signal after said adjusting said pilot
  signal search window threshold.

  34 An...

00783590   **Image available**
**METHOD AND APPARATUS FOR DETECTING ZERO RATE FRAMES IN A COMMUNICATIONS
    SYSTEM**

PROCEDE ET APPAREIL POUR DETECTER DES TRAMES A DEBIT NUL DANS UN SYSTEMES DE COMMUNICATIONS

Fulltext Availability:
  Detailed Description

Detailed Description
...   value. The set points can be averaged in the manners described above.
  The amount of **adjustment** in the **threshold** value can also be dependent
  on, for example, the **number** of **fingers** in a rake receiver used to
  demodulate the signal.

  For clarity, the invention has been...
?

DIALOG(R)File 349:PCT FULLTEXT

00896506   **Image available**
**METHOD AND APPARATUS FOR CALL DROP PREVENTION IN A WIRELESS COMMUNICATION
   SYSTEM**
**PROCEDE ET DISPOSITIF POUR EMPECHER LES INTERRUPTIONS D'APPELS DANS UN
   SYSTEME DE COMMUNICATION SANS FIL**
Patent Applicant/Assignee:
  KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 BA
    Eindhoven, NL, NL (Residence), NL (Nationality)
Inventor(s):
  ALDAZ Luis, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,
Legal Representative:
  VOLMER Georg (et al) (agent), Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL
   ,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200229995 A2-A3 20020411 (WO 0229995)
  Application: WO 2001EP11404 20011002 (PCT/WO EP0111404)
  Priority Application: US 2000678471 20001002
Designated States: JP KR
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
Publication Language: English
Filing Language: English
Fulltext Word Count: 14901

Fulltext Availability:
  Claims

Claim
... now to Figure 3, a graph of an exemplary multipath signal, to which a
  time **threshold** and a SNR **threshold** is applied is shown, in accordance
  with one embodiment of the present invention. Graph 300...

...is shown as an exemplary signal charted over a period of time.
  A first SNR **threshold** , multipath acceptance **threshold** (T
   ACCEPT) 326, represents the
   threshold for which the multipath management will consider a multipath
  ACCEPT operation
  for the multipath signal in question. In conjunction with the T
   ACCEPT 326 **threshold** , the
  present embodiment also shows the number **threshold** of measurement for
  acceptance
  (N
   ACCEPT) 322 that represents a time **threshold** over which the
  signal-to-noise ratio of the signal must be maintained above T...
...measurements. As shown in Figure 3, fourth multipath signal 106d fails
  to satiate both these **thresholds** in time span 3 343. However, fourth
  multipath signal 106d does satiate both of these **thresholds** as shown in
  time span 1 341. While the present embodiment utilizes both a SNR
  threshold and a time **threshold** to consider a multipath ACCEPT
  operation for the multipath signal, the present invention is well-suited
  to using only a SNR **threshold** . Figure 3 also shows a second SNR
  threshold , multipath rejection **threshold**
  (T
  REJECT) 328, which represents the **threshold** for which the multipath
  management will consider a REJECT operation for the multipath signal in
  question. In conjunction with the T-REJECT 328 **threshold** , the present
  embodiment also shows the number **threshold** of

measurement for rejection (N
REJECT) **threshold** 324 that represents a time **threshold** over
which the strength of the signal must be below T REJECT for the multipath
...

...operation to proceed. As shown in Figure 3, fourth multipath signal 106d
satiates both these **thresholds** as shown by time span 2 342. By using a
time **threshold** for accepting and/or rejecting a multipath signal with
respect to the demodulation and combining...otherwise strong multipath
signal without causing thrashing. While the present embodiment utilizes
both a SNR **threshold** and a time **threshold** to consider a multipath
ACCEPT operation for the multipath signal, the present invention is
well-suited to using only a SNR **threshold** . FIGURE 4 is a state diagram
in which multipath signals may be categorized, in accordance...

...the number of signals associated with all of the multiple states can
greatly exceed the **number** of available demodulating **fingers** in a
rake **receiver** . In this manner, the present invention provides a
sequence of queues of available multipath signals...

...present embodiment inquires whether the signal has a SNR
that is greater than a predetermined **threshold** T-USE established by the
searcher. The **threshold** T-USE guarantees sufficient signal strength for
demodulation. If the signal does have a SNR that is greater than
threshold T-USE, then the process proceeds to step 426. 1 0
Alternatively, if the signal does not have a SNR that is greater than
threshold T-USE, then the signal is rejected per step 450. The searcher
measures an arrival...

...embodiment inquires whether the new multipath signal has a SNR that is
greater than a **threshold** T-ACCEPT. If the new multipath signal does
have a SNR that is greater than **threshold** T-ACCEPT, then the process
proceeds to step 426. Alternatively, if the new multipath signal does not
have a SNR that is greater than **threshold** T-ACCEPT, then the new
multipath signal is rejected per step 450. Step 426 of...

...determine whether the signal maintains the SNR above T-ACCEPT, which
itself satisfies the SNR **threshold** , over a time **threshold** , e.g. over
N-ACCEPT consecutive SNR measurements. If the signal satiates the
N-ACCEPT **threshold** per step 428, then the signal is categorized in
potential state 404. Alternatively, if the signal does not satiate the
N-ACCEPT **threshold** , then it remains categorized in temporary state 402.
Step 432 is illustrated, in one embodiment...

...Both span 3 343 of signal 106d span 1 341 satiate the T-ACCEPT 326
threshold , but only span 1 342 satiates the N-ACCEPT 322 **threshold** .
Consequently, at a time corresponding to span 3 343, signal 106d ...
present embodiment, an inquiry determines whether the
signal satiates both T-COMP and N-COMP **thresholds** . The T-COMP
threshold represents a @Ccomparison" margin **threshold** by which one
signal categorized in a potential state 404 has to exceed the SNR...

...in assigned state 406 in order to be promoted to assigned state. The
comparison margin **threshold** also includes a time **threshold** , N-COMP
consecutive SNR measurements, over which the T-COMP **threshold** is
satiated. If a signal categorized in a potential state 404 has ongoing
SNR performance...

...requirement, then the two signals remain categorized in original states.
The purpose of these two **thresholds** is to only allow a signal

categorized in an assigned state 406 to be replaced...

...the signal has a SNR that is less than T-REJECT, e.g. multipath REJECT **thresholds** that are shown in Figure 2, over a time **threshold** , e.g. over N-REJECT consecutive SNR measurements. If a signal categorized in assigned state...

...ongoing SNR performance that is less than T-REJECT satiating the 1 0 N-ACCEPT **threshold** , then the signal is demoted from assigned state 406, and rejected in step 450. Alternatively...

...the signal has a SNR that is less than T REJECT, e.g. multipath REJECT **thresholds** over N-REJECT consecutive SNR measurements. If a signal categorized in potential state 404 has ongoing SNR performance that is less than T-REJECT **thresholds** over N-REJECT consecutive SNR measurements, then the signal is demoted from the potential state...

...404.
Step 446 provides a process similar to that of step 442 but without time **threshold** criterion. In step 446, an inquiry determines whether the signal has a SNR that is...

...less than T-ACCEPT, then the signal remains categorized in temporary state 402.
The time **thresholds** utilized in process 400 can be implemented, in one embodiment, by using various timers or counters that are activated at the point during which an appropriate **threshold** is satisfied. The present embodiment maintains a separate timer for each multipath signal associated with...

...fading duration of the longterm fading channel. The timer is initiated when a multipath reject **threshold** value is satisfied, e.g. when a multipath signal's performance drops below a **threshold** T-REJECT, and is reset and disabled if the multipath signal exceeds the **threshold** T-REJECT. Various defaults and expiration values can be established for the times to accommodate zero **threshold** settings.
The process of categorizing signals into states, e.g. promoting them and demoting them...process 5000 uses data
stored as software, the present invention provides dynamic management. For example, **thresholds** used in process 5000 can be stored in memory. Thus, their values can be changed, I 0 in one embodiment. **Threshold** values can be programmed into ROM 218b or RAM 218a portions of memory 216. **Threshold** values can be provided or changed via instructions and data at the time the device...lock block evaluates signal strength data 645 and timer data 651 against appropriate signal-strength **thresholds** and/or time **thresholds** to decide whether the multipath signal should be deassigned, locked, or subsequently combined. Details on the quantity, type, and values of **thresholds** is described in more detail in subsequent figures. Finger lock block 646 provides a finger...

...644 to provide more accurate data on signal
strength, and by using logic and multiple **thresholds** implemented by finger lock block 646 and timing block 649, the present invention provides an...

00747352   **Image available**
COMBINING   SUB-CHIP RESOLUTION SAMPLES IN FINGERS OF A SPREAD-SPECTRUM RAKE RECEIVER
COMBINAISON D'ECHANTILLONS A RESOLUTION DE SOUS-ELEMENTS DANS LES DOIGTS D'UN RECEPTEUR RAKE A ETALEMENT DU SPECTRE

Fulltext Availability:
  Detailed Description

Detailed Description
... delays for the reception of messages transmitted in a spread spectrum
  radio communication system. The **rake   receiver** comprises a **number** of
  reception arms or **fingers** . Each finger provides for the reception of
  the signal along a propagation path identified by...

...samples which are neighbors of the central samples, the samples being
  above a given selection **threshold** . Further in said method, if the
  number of delays in said first list is greater...

...are selected from the second list for which the evaluated energy is
  above the selection **threshold** . As in said US Patent No. 5,648,983,
  socalled multipath diversity gain is obtained...

...delays corresponding to samples of the received signal with an energy
  above said given selection **threshold** .
  Rake receivers as described in said US Patents No. 5,648,983 and No.

  5...
?

```
File    2:INSPEC 1969-2004/Mar W3
          (c) 2004 Institution of Electrical Engineers
File    6:NTIS 1964-2004/Mar W4
          (c) 2004 NTIS, Intl Cpyrght All Rights Res
File    8:Ei Compendex(R) 1970-2004/Mar W3
          (c) 2004 Elsevier Eng.  Info. Inc.
File   34:SciSearch(R) Cited Ref Sci 1990-2004/Mar W3
          (c) 2004 Inst for Sci Info
File   35:Dissertation Abs Online 1861-2004/Feb
          (c) 2004 ProQuest Info&Learning
File   65:Inside Conferences 1993-2004/Mar W4
          (c) 2004 BLDSC all rts. reserv.
File   94:JICST-EPlus 1985-2004/Mar W2
          (c)2004 Japan Science and Tech Corp(JST)
File   95:TEME-Technology & Management 1989-2004/Mar W2
          (c) 2004 FIZ TECHNIK
File   99:Wilson Appl. Sci & Tech Abs 1983-2004/Feb
          (c) 2004 The HW Wilson Co.
File  144:Pascal 1973-2004/Mar W3
          (c) 2004 INIST/CNRS
File  233:Internet & Personal Comp. Abs. 1981-2003/Sep
          (c) 2003 EBSCO Pub.
File  239:Mathsci 1940-2004/Apr
          (c) 2004 American Mathematical Society
File  434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
          (c) 1998 Inst for Sci Info
File  583:Gale Group Globalbase(TM) 1986-2002/Dec 13
          (c) 2002 The Gale Group
File  603:Newspaper Abstracts 1984-1988
          (c)2001 ProQuest Info&Learning
File  483:Newspaper Abs Daily 1986-2004/Mar 30
          (c) 2004 ProQuest Info&Learning
```

Set	Items	Description
S1	1435	IS95 OR IS-95 OR CDMA2000
S2	12510	(ADJUST? OR ALTER? OR MODIF? OR CHANG?)(3N)(THRESHOLD? OR -PILOT()THRESHOLD?)
S3	32961	FINGERS
S4	3466	RAKE(3N)RECEIVER?
S5	3023	S3 AND NUMBER??
S6	6	S1 AND S2
S7	17	S2 AND S3
S8	23	S6 OR S7
S9	13	RD S8 (unique items)
S10	4	S9 NOT (HAND OR HUMAN OR MEDICAL OR BUBBLES OR VAPOUR OR H-YGIENE OR SKIN OR WARM OR COLD OR WRENCH OR PESTICIDES)
S11	4	RD S10 (unique items)
S12	16	IS-95A OR IS95-B
S13	6	(S12 OR S1) AND S2
S14	5	S13 NOT S9
S15	1	RD S14 (unique items)
S16	2	S4 AND S5 AND S2
S17	0	S16 NOT (S13 OR S9)
S18	2	S2 AND S5
S19	0	S18 NOT (S13 OR S9)

11/3,K/1   (Item 1 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7894128   INSPEC Abstract Number: B2004-04-6250F-289
  Title: **Adaptation of CDMA soft handoff thresholds using fuzzy inference
system**
  Author(s): Homnan, B.; Benjapolakul, W.
  Author Affiliation: Dept. of Electr. Eng., Chulalongkorn Univ., Bangkok,
Thailand
  Journal: Wireless Personal Communications   vol.26, no.4   p.325-45
  Publisher: Kluwer Academic Publishers,
  Publication Date: Sept. 2003 Country of Publication: Netherlands
  CODEN: WPCOFW ISSN: 0929-6212
  SICI: 0929-6212(200309)26:4L.325:ACSH;1-I
  Material Identity Number: D225-2003-011
  Language: English
  Subfile: B
  Copyright 2004, IEE

  Abstract: This paper proposes a new procedure to **adjust** soft handoff
 thresholds dynamically by using fuzzy inference system. This algorithm is
compared with IS-95A and IS-95B/ **cdma2000** soft handoffs. The aims are to
increase the thresholds at high traffic loads in order...
... fuzzy inference tends to give higher performance than those.of IS-95A
and IS-95B/ **cdma2000** soft handoffs at high traffic loads and at lower soft
handoff thresholds while the quality...
  ...Identifiers: **cdma2000** ; ...

...IS-95B/ **cdma2000** soft handoffs

  11/3,K/2   (Item 2 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7762587   INSPEC Abstract Number: B2003-11-6250F-259
  Title: **Minimum selection GSC and adaptive low-power rake combining scheme**
  Author(s): Suk Won Kim; Ha, D.S.; Reed, J.H.
  Author Affiliation: Syst. LSI Div., Samsung Electron. Co., Ltd, Gyeonggi,
South Korea
  Conference Title: Proceedings of the 2003 IEEE International Symposium on
Circuits and Systems (Cat. No.03CH37430)   Part vol.4   p.IV-357-60 vol.4
  Publisher: IEEE, Piscataway, NJ, USA
  Publication   Date: 2003 Country   of   Publication: USA   5
vol.(ci+1076+962+941+915+840) pp.
  ISBN: 0 7803 7761 3   Material Identity Number: XX-2003-02030
  U.S. Copyright Clearance Center Code: 0-7803-7761-3/03/$17.00
  Conference Title: ISCAS 2003. International Symposium on Circuits and
Systems
  Conference Sponsor: IEEE Circuits & Syst. Soc; Mahanakorn Univ. Technol
  Conference Date: 25-28 May 2003   Conference Location: Bangkok,.Thailand
  Language: English
  Subfile: B
  Copyright 2003, IEE

  ...Abstract: new GSC technique called minimum selection GSC (MS-GSC)
selects a minimum number of rake **fingers** as long as the combined SNR is
larger than a given threshold. The proposed rake combining scheme
adaptively **adjusts** the **threshold** value to maintain the desired BER, in

which a GSC dynamically selects rake **fingers** ·to meet the given threshold condition. The proposed MS-GSC shows a low standard deviation...

... consumption of a mobile rake receiver up to 67.8% by turning off unselected rake **fingers** .
...Identifiers: adaptively **adjusted** **thresh**old value...

...dynamically selected rake **fingers** ;

 11/3,K/3 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

06445575 E.I. No: EIP03297544050
 Title: Minimum selection GSC and adaptive low-power rake combining scheme
 Author: Kim, Suk Won; Ha, Dong S.; Reed, Jeffrey H.
 Corporate Source: System LSI Division Device Solution Network Samsung Electronics Co., Ltd., Yongin-City, Gyeonggi-Do 449-711, South Korea
 Conference Title: Proceedings of the 2003 IEEE International Symposium on Circuits and Systems
 Conference Location: Bangkok, Thailand Conference Date: 20030525-20030528
 E.I. Conference No.: 61138
 Source: Proceedings - IEEE International Symposium on Circuits and Systems v 4 2003. p IV357-IV360 (IEEE cat n 03CH37430)
 Publication Year: 2003
 CODEN: PICSDI ISSN: 0271-4310
 Language: English

 ...Abstract: new GSC technique called minimum selection GSC (MS-GSC) selects a minimum number of rake **fingers** as long as the combined SNR is larger than a given threshold. The proposed rake combining scheme adaptively **adjusts** the **thres**hold value to maintain the desired BER, in which a GSC dynamically selects rake **fingers** to meet the given threshold condition. The proposed MS-GSC shows a low standard deviation...

...consumption of a mobile rake receiver up to 67.8 % by turning off unselected rake **fingers** . 10 Refs.

 11/3,K/4 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01863666 ORDER NO: AADAA-I3033704
 Novel adaptive power and rate control in third generation wideband CDMA mobile systems
 Author: Sadri, Ali Soheil
 Degree: Ph.D.
 Year: 2000
 Corporate Source/Institution: North Carolina State University (0155)
 Source: VOLUME 62/12-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
         PAGE 5888. 107 PAGES
 ISBN: 0-493-46675-4

 ...with the exception that in our Adaptive Transmitter Power Control (TPC) and Adaptive Seamless Rate **Change** (SRC) the **thresholds** are set based on several regions of operation. These regions are defined by means of...

...degrees of freedom. However, in a W-CDMA system, normally the rake receiver has several **fingers** . That is, at the receiver, the system either estimates or predicts the channel coefficients at...

...chooses the ones with the highest energy and performs maximal ratio combining on the selected **fingers** .
     In a two-user system where the multi-access interference is modeled as the Standard...
?

15/3,K/1   (Item 1 from file: 2)
DIALOG(R)File   2:INSPEC

6977259   INSPEC Abstract Number: B2001-08-6250F-184, C2001-08-3370H-012
  Title: Adaptation of CDMA soft handoff thresholds using fuzzy inference system

  Author(s): Homnan, B.; Kunsriruksakul, V.; Benjapolakul, W.
  Author Affiliation: Dept. of Electr. Eng., Chulalongkorn Univ., Bangkok, Thailand
  Conference Title: 2000 IEEE International Conference on Personal Wireless Communications. Conference Proceedings (Cat. No.00TH8488)   p.259-63
  Publisher: IEEE, Piscataway, NJ, USA
  Publication Date: 2000   Country of Publication: USA   xv+584 pp.
  ISBN: 0 7803 5893 7   Material Identity Number: XX-2000-02773
  U.S. Copyright Clearance Center Code: 0 7803 5893 7/2000/$10.00
  Conference   Title: Proceedings of IEEE International Conference on Personal Wireless Communications (ICPWC)
  Conference Sponsor: IEEE Inf. Theory Soc.; Univ. Victoria; Ministr. Inf. Technol.; Govern. India; IEEE AES/COM/LEOS India Council Chapter; IEEE Hyderabad Sect
  Conference Date: 17-20 Dec. 2000   Conference Location: Hyderabad, India
  Language: English
  Subfile: B C
  Copyright 2001, IEE

  Abstract: This paper proposes a new procedure to **adjust** soft handoff **thresholds**   (T-DROP, T-ADD) by using a fuzzy inference system (FIS). The aims are to...

...B/, P/sub HO/, NO/sub update/) than those of IS-95A and IS-95B/ **cdma2000** SHO at high traffic loads or lower thresholds while the quality of TCH (E/sub...
?

```
File 344:Chinese Patents Abs Aug 1985-2004/Mar
         (c) 2004 European Patent Office
File 347:JAPIO Nov 1976-2003/Nov(Updated 040308)
         (c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200419
         (c) 2004  Thomson Derwent

Set     Items    Description
S1        124     IS95 OR IS-95 OR IS-95A OR IS95-B OR CDMA2000
S2      40939     (ADJUST? OR ALTER? OR MODIF? OR CHANG?) AND (THRESHOLD? OR
                 PILOT()THRESHOLD?)
S3      41822     FINGERS
S4        590     RAKE(3N)RECEIVER?
S5       4570     S3 AND NUMBER??
S6          7     S2 AND S5
S7          0     S1 AND S6
S8          3     S1 AND S2
S9          3     S8.NOT S6
S10         0     IS95B AND S2
S11         0     PILOT AND (THRESHOLD OR STRENGTH) AND (IS95B OR IS95-B)
S12      1225     PILOT AND (THRESHOLD OR STRENGTH)
S13         2     S12 AND S5
S14         0     S13 NOT (S8 OR S6)
```

6/3,K/1   (Item 1 from file: 347)

04160824   **Image available**
SEMICONDUCTOR INTEGRATED CIRCUIT

PUB. NO.:   05-152524 [JP 5152524 A]
PUBLISHED: June 18, 1993 (19930618)
INVENTOR(s):   ICHIOKA TOSHIHIKO
               KATAYANAGI TETSUO
               KAWAKAMI YASUSHI
APPLICANT(s): OKI ELECTRIC IND CO LTD [000029] (A Japanese Company or
               Corporation), JP (Japan)
APPL. NO.:   03-317216 [JP 91317216]
FILED: December 02, 1991 (19911202)
JOURNAL: Section: E, Section No. 1440, Vol. 17, No. 538, Pg. 167,
               September 28, 1993 (19930928)

ABSTRACT
... of FET parameters by connecting FETs having one type of gate widths in
parallel, and **altering** the **number** thereby to equivalently form the FETs
having different gate widths...

... finger or multi-finger field effect transistors, and so formed that the
lengths of the **fingers** are 10.mu.m or less and equal to each other. FETs
having one type...

... parallel instead of single FETs having different gate widths, and the
gate width is equivalently **altered** by varying the **number** . Thus, a
partial operation defect in a circuit occurring due to a difference of FET
parameters such as a difference of **threshold** values between the FETs
having different gate widths due to a narrow channel effect can...

 6/3,K/2   (Item 2 from file: 347)

03812378   **Image available**
FINGERPRINT COLLATION DEVICE

PUB. NO.:   04-177478 [JP 4177478 A]
PUBLISHED: June 24, 1992 (19920624)
INVENTOR(s):   MORITA KOICHIRO
APPLICANT(s): NIHON DENKI SEKIYURITEI SHISUTEMU KK [000000] (A Japanese
               Company or Corporation), JP (Japan)
APPL. NO.:   02-303501 [JP 90303501]
FILED: November 08, 1990 (19901108)
JOURNAL: Section: P, Section No. 1435, Vol. 16, No. 493, Pg. 70,
               October 13, 1992 (19921013)

ABSTRACT
... with high reliability without using an uncertain element such as a key
or a password **number** , etc., by collating a registered one finger or all
 fingers with an input fingerprint...

...CONSTITUTION: An image input control part 12 checks the temporal
gradation **change** of plural picture elements at prescribed positions in an
image fetched at need, and detects...

... automatically extracts a fingerprint image when the gradation value of the picture element exceeds a **threshold** value. A two-dimensional quantization image obtained in such way is stored in image memory...

6/3,K/3 ·(Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014938355 **Image available**
WPI Acc No: 2002-759064/200282
XRPX Acc No: N02-597627
Finger resources management method for CDMA wireless communication involves determining number **of available** fingers **in receiver, based on which pilot signal** threshold **is** adjusted
Patent Assignee: QUALCOMM INC (QUAL-N); CHEN T (CHEN-I); TIEDEMANN E G (TIED-I); WANG (WANG-I); WILLENEGGER S (WILL-I)
Inventor: CHEN T; TIEDEMANN E G; WANG J; WILLENEGGER S
Number of Countries: 102 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020101909	A1	20020801	US 2001772779	A	20010129	200282	B
WO 200261990	A2	20020808	WO 2002US1902	A	20020123	200282	
EP 1356602	A2	20031029	EP 2002704224	A	20020123	200379	
			WO 2002US1902	A	20020123		
TW 543305	A	20030721	TW 2002101486	A	20020129	200406	
KR 2003070146	A	20030827	KR 2003710007	A	20030729	200406	

Priority Applications (No Type Date): US 2001772779 A 20010129
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020101909	A1		10	H04K-001/00	
WO 200261990	A2	E		H04B-017/07	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

EP 1356602	A2	E		H04B-001/707	Based on patent WO 200261990

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

TW 543305	A			H04B-001/00	
KR 2003070146	A			H04B-001/69	

Finger resources management method for CDMA wireless communication involves determining number **of available** fingers **in receiver, based on which pilot signal** threshold **is** adjusted

Abstract (Basic):
...   The **number** of available **fingers** in a receiver is determined, based on which the pilot signal **threshold** or lock/unlock **threshold** or combine/uncombined **threshold** are **adjusted** .
...   Efficiently manages finger resources, as the **number** of **fingers** are **changed** after **adjusting** the pilot signal **threshold** .

...Title Terms: **NUMBER** ;

DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014029854   **Image available**
WPI Acc No: 2001-514068/200156
XRPX Acc No: N01-380857
   **Apparatus for determining the close loop power control set-point in a
   wireless packet data communication system using a pilot signal for
   reverse link outer loop**
Patent Assignee: QUALCOMM INC (QUAL-N)
Inventor: BLACK P J; LING F
Number of Countries: 095 Number of Patents: 009
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200111800	A1	20010215	WO 2000US21442	A	20000803	200156	B
AU 200065239	A	20010305	AU 200065239	A	20000803	200156	
EP 1201045	A1	20020502	EP 2000952565	A	20000803	200236	
			WO 2000US21442	A	20000803		
BR 200012996	A	20020618	BR 200012996	A	20000803	200249	
			WO 2000US21442	A	20000803		
KR 2002016936	A	20020306	KR 2002701478	A	20020202	200261	
CN 1369147	A	20020911	CN 2000811296	A	20000803	200282	
JP 2003506958	W	20030218	WO 2000US21442	A	20000803	200315	
			JP 2001515557	A	20000803		
MX 2002001282	A1	20020801	WO 2000US21442	A	20000803	200367	
			MX 20021282	A	20020206		
US 6633552	B1	20031014	US 99370081	A	19990806	200368	

Priority Applications (No Type Date): US 99370081 A 19990806
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
WO 200111800 A1 E   31 H04B-007/005
   Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
   CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
   KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT
   RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
   Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
   IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW
AU 200065239 A   H04B-007/005 Based on patent WO 200111800
EP 1201045   A1 E   H04B-007/005 Based on patent WO 200111800
   Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
   LI LT LU LV MC MK NL PT RO SE SI
BR 200012996 A   H04B-007/005 Based on patent WO 200111800
KR 2002016936 A   H04B-007/005
CN 1369147   A   H04B-007/005
JP 2003506958 W   35 H04B-001/707 Based on patent WO 200111800
MX 2002001282 A1   H04B-007/005 Based on patent WO 200111800
US 6633552   B1   H04B-007/00   .

Abstract (Basic):
...   and a finger combiner (310) sums pilot signal energies from the
   calculators and sums the **number** of **fingers** determined to be in
   lock. A sampler (312) decimates the demodulated pilot symbol stream and
   ...

...error detector (314) detects a negative amplitude of a symbol, in order
   to send the **number** of errors to a set-point calculator (316),
   providing the set-point to a comparator (320), comparing the signal to
   noise ratio to a **threshold** , to generate a transmission energy control
   signal for the transmitter (328).

...   Accurate set-point **adjustment** without need for packet or frame
error rate estimation...

  6/3,K/5   **(Item 3 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013991182   **Image available**
WPI Acc No: 2001-475397/200151
XRPX Acc No: N01-351910
  Signals deassigning method for wireless telecommunication system,
  involves deassigning signal from finger, when measure of signal quality
  of signal crosses threshold **and** changing threshold **as function of**
  time
Patent Assignee: BI Q (BIQQ-I); DAUDELIN D S (DAUD-I); LUCENT TECHNOLOGIES
  INC (LUCE)
Inventor: BI Q; DAUDELIN D S
Number of Countries: 001 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20010010688	A1	20010802	US 97964582	A	19971105	200151	B
US 6515977	B2	20030204	US 97964582	A	19971105	200313	

Priority Applications (No Type Date): US 97964582 A 19971105
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20010010688	A1		14	H04M-017/00	
US 6515977	B2			H04Q-007/00	

... **telecommunication system, involves deassigning signal from finger,**
  when measure of signal quality of signal crosses threshold **and**
  changing threshold **as function of time**

Abstract (Basic):
...   signal from finger is deassigned when a measure of signal
  quality of signal crosses a **threshold** . When the **threshold** is
  changed as a function of time.
...   For deassigning signals from the **fingers** of rake receiver in
  code division multiple access based wireless telecommunication system
  ...

...Deassigns spurious signals from the **fingers** of a rake receiver quickly
  and do not deassign genuine signals in momentary periods of degraded
  signal quality. Enables the rake receiver to have large **number** of
  genuine constituent signals and smaller **number** of spurious signals
  and hence results in a higher quality estimate of the transmitted
  signal...
...Title Terms: **THRESHOLD** ;

  6/3,K/6   **(Item 4 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

007697177   **Image available**
WPI Acc No: 1988-331109/198847
XRPX Acc No: N88-250990
  Electromechanically or fluid operated manipulator for robot - has
  Hall-effect device responding to dipole magnets to detect finger position
Patent Assignee: BARRY WRIGHT CORP (BAWC)

Inventor: CHIN L D; DOMEIER W H
Number of Countries: 002   Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 3813708	A	19881117	DE 3813708	A	19880422	198847	B
US 4809191	A	19890228	US 8744593	A	19870428	198911	

Priority Applications (No Type Date): US 8744593 A 19870428
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 3813708	A		12		
US 4809191	A		11		

...Abstract (Basic): manipulator has a gripping device (10) for objects and
   consisting of a body and several **fingers** . A sensor determines the
   relative positions of the **fingers** and contains at least one
   Hall-effect sensor. A magnet device is located in at...

...mounted on one of many finger blocks each sliding on the body to move
   the **fingers** parallel to one another...
...Abstract (Equivalent): The sensor includes one Hall effect sensor, and a
   magnet disposed in **fingers** , oriented with respect to Hall effect
   sensor in a bipolar slide-by mode arrangement. The...

...processing device for processing signals generated by sensing device and
   representative of relative position of **fingers** .
       . . .

...ADVANTAGE - Has linear response to **changes** in manipulator position
   wherein said sensing means generates a range of input values
   representative of...

...includes output range logic means for dividing said range of input
   values into a predetermined **number** of corresponding output subranges,
   and further comprising display means in association with said signal
   conditioning...

...wherein said signal conditioning means further includes set point means
   for establishing a plurality of **adjustable** output set point values,
   each corresponding to a predetermined input value, and comparator means
   for...
...of an output set point value when said given input value falls within a
   predetermined **threshold** of an output set point value.

 6/3,K/7   (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

007381478   **Image available**
WPI Acc No: 1988-015413/198803
XRPX Acc No: N88-011553
  Semiconductor coupling strip with numerous metal fingers **- has incision
  in strip extending transversely over blocking** threshold **for mechanical
  finger insulation**
Patent Assignee: NAT SEMICOND (NASE-N); NAT SEMICONDUCTOR INC (NASC)
Inventor: EMAMJOMEH A; RICE R
Number of Countries: 004   Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week

Semiconductor coupling strip with numerous metal fingers - ...

...**has incision in strip extending transversely over blocking** threshold
for mechanical finger insulation

...Abstract (Basic): spacing. Each metal finger stencil comprises a
personality window, from whose edges extend group of **fingers** , forming
a field corresponding to a bonding bead template on an electronic
device...

...The templates are separated by a blocking **threshold** , extending
laterally over the strip and forming a transverse edge of the
personality window. In...

...strip (10) is formed an incision (21), extending across the strip and
over the blocking **threshold** (12) for mechanical insulation of the
finger stencils in adjacent personality windows and increased
flexibility...
...Abstract (Equivalent): indexed to said locator holes, each of said metal
finger patterns including an array of **fingers** extending inwardly in
cantilever fashion from the edges of a window, said individual patterns
being...
...Abstract (Equivalent): tape is passed under the guide shoe in an inner
lead bonding machine the metal **fingers** will not be distorted as the
tape flexes. After the semiconductor device is bonded to...

...tape to span the locator holes to form slot extension regions of reduced
tape thickness. **Alternatively** , a slot can be formed from a plurality
of shorter slots that in the aggregate perform the same function. USE -
Tape for bonding metal **fingers** to electronic devices e.g. IC chips...

...slot pattern (21) formed across the dam bar (12) and the side rails
(13). A **number** of finger patterns (15) in adjacent personality
windows is mechanicaly isolated from each other. A...

...beyond the slot to locator holes (11). These sections are made wider
than the slots. **Alternatively** , the slot patterns may consist of a
number of individual slots formed in a row that creates the equivalent
of a single transverse...
...Title Terms: **THRESHOLD** ;
?

015563728   **Image available**
WPI Acc No: 2003-625884/200359
XRPX Acc No: N03-498000
  **Buffered data congestion control method in e.g. general packet radio
  service system, involves comparing buffered data size with low and high
  threshold values to notify data congestion to destination node**
Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU)
Inventor: LEE S W; LEE S
Number of Countries: 003 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20030099195	A1	20030529	US 2002306523	A	20021127	200359	B
KR 2003044384	A	20030609	KR 200175108	A	20011129	200366	
JP 2003298595	A	20031017	JP 2002348965	A	20021129	200370	

Priority Applications (No Type Date): KR 200175108 A 20011129
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030099195	A1		19	G01R-031/08	
KR 2003044384	A			H04L-012/28	
JP 2003298595	A		44	H04L-012/28	

... **g. general packet radio service system, involves comparing buffered
  data size with low and high threshold values to notify data congestion
  to destination node**

Abstract (Basic):
...   of data stored in a buffer of source node is compared with low
  and high **threshold** values. If the data size is equal to or greater
  than the high **threshold** value, the data congestion is notified to a
  destination node. The rate of data to...
...   data congestion in buffer of mobile communication system such as
  code division multiple access 2000 (**CDMA2000**) system, wide band code
  division multiple access/universal mobile telecommunications system
  (WCDMA/UMTS), general packet...

...of signaling for data transmission flow control, and obviates the need
  for frequent data rate **changes** by comparing the buffered data size
  with two different **threshold** values. Hence maintains stable data rate
  ...
...Title Terms: **THRESHOLD ;**

015250781   **Image available**
WPI Acc No: 2003-311707/200330
XRPX Acc No: N03-248165
  **Portable communication terminal for CDMA communication, switches from
  cdma2000 1x-EV DO system to cdma2000 1x system when predicted future
  data communication speed becomes less than prescribed** threshold **value**
Patent Assignee: KYOCERA CORP (KYOC); HIDAKA H (HIDA-I); IKEDA N (IKED-I)
Inventor: HIDAKA H; IKEDA N
Number of Countries: 004 Number of Patents: 005
Patent Family:

```
Patent No       Kind   Date     Applicat No     Kind   Date      Week
US 20020196755  A1   20021226  US 2002144093    A    20020510  200330  B
CN 1386028      A    20021218  CN 2002119131    A    20020509  200330
JP 2002345019   A    20021129  JP 2001141975    A    20010511  200330
KR 2002086245   A    20021118  KR 200225204     A    20020508  200330
JP 2003092782   A    20030328  JP 2001283626    A    20010918  200331
```

Priority Applications (No Type Date): JP 2001283626 A 20010918; JP
  2001141975 A 20010511
Patent Details:
```
Patent No  Kind Lan Pg   Main IPC      Filing Notes
US 20020196755 A1    17 H04B-007/216
CN 1386028     A        H04Q-007/32
JP 2002345019 A       9 H04Q-007/38
KR 2002086245 A         H04B-007/26
JP 2003092782 A       9 H04Q-007/38
```

Portable communication terminal for CDMA communication, switches from
cdma2000 **1x-EV DO system** to cdma2000 **1x system when predicted future**
data communication speed becomes less than prescribed threshold **value**

Abstract (Basic):
...   speed based on the pilot signal received from a prescribed base
    station with respect to **cdma2000** 1x-EV DO system. The portable
    communication terminal switches from **cdma2000** 1x-EV DO system to
    cdma2000 1x system when the predicted future data communication speed
    becomes less than a prescribed **threshold** value.
...   3) wireless communication system **changeover** method; and...

...As the portable communication terminal automatically switches to the
    cdma2000 1x system when data communication speed becomes lower than
    the prescribed **threshold** , a high speed data communication is
    performed at any time regardless of data communication environments...
...Title Terms: **THRESHOLD** ;

 9/3,K/3   (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014032408   **Image available**
WPI Acc No: 2001-516621/200157
XRPX Acc No: N01-382781
  Soft handoff method for cellular mobile communication network, involves
  adjusting transmission power of base stations communicating with mobile
  station, when power imbalance between base stations is detected
Patent Assignee: FUJITSU LTD (FUIT)
Inventor: DRUET A M G B; MOHEBBI B
Number of Countries: 001 Number of Patents: 001
Patent Family:
```
Patent No     Kind   Date     Applicat No     Kind   Date      Week
GB 2358109     A    20010711  GB 2000437      A    20000110  200157  B
```

Priority Applications (No Type Date): GB 2000437 A 20000110
Patent Details:
```
Patent No  Kind Lan Pg   Main IPC      Filing Notes
GB 2358109    A      42 H04B-007/005
```

  Soft handoff method for cellular mobile communication network, involves
  adjusting transmission power of base stations communicating with mobile

station, when power imbalance between base stations...

Abstract (Basic):
...   signal strength from base stations. When the difference in
   signal strength is more than a **threshold** , power imbalance of base
   stations is detected. The transmission power of one of the base
   stations is **adjusted** to reduce the power imbalance.   ·
...   For cellular mobile communication networks like UMTS terrestrial
   radio access, W-CDMA and **IS95** network. Also for TDMA, WDMA, FDMA and
   space division multiple access networks·...

...By simple mechanism, power imbalance situation is detected reliably. By
   adjusting power of base stations, power imbalance is rectified easily
   ...
...Title Terms: **ADJUST** ;
?